Recombinant Human DFFA Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. DFFA-4460H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	DFFA MS Standard C13 and N15-labeled recombinant protein (NP_004392) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Apoptosis is a cell death process that removes toxic and/or useless cells during mammalian development. The apoptotic process is accompanied by shrinkage and fragmentation of the cells and nuclei and degradation of the chromosomal DNA into nucleosomal units. DNA fragmentation factor (DFF) is a heterodimeric protein of 40-kD (DFFB) and 45-kD (DFFA) subunits. DFFA is the substrate for caspase-3 and triggers DNA fragmentation during apoptosis. DFF becomes activated when DFFA is cleaved by caspase-3. The cleaved fragments of DFFA dissociate from DFFB, the active component of DFF. DFFB has been found to trigger both DNA fragmentation and chromatin condensation during apoptosis. Two alternatively spliced transcript variants encoding distinct isoforms have been found for this gene.
Molecular Mass	36.6 kDa
AA Sequence	MEVTGDAGVPESGEIRTLKPCLLRRNYSREQHGVAASCLEDLRSKACDILAIDKSLT PVTLVLAEDGTIVDDDDYFLCLPSNTKFVALASNEKWAYNNSDGGTAWISQESFDVD ETDSGAGLKWKNVARQLKEDLSSIILLSEEDLQMLVDAPCSDLAQELRQSCATVQRL

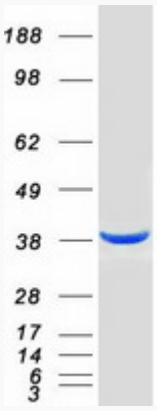
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	QHTLQQVLDQREEVRQSKQLLQLYLQALEKEGSLLSKQEESKAAFGEEVDAVDTGI SRETSSDVALASHILTALREKQAPELSLSSQDLELVTKEDPKALAVALNWDIKKTETV QEACEWELALRLQQTQSLHSLRSISASKASPPGDLQNPKRARQDPTTRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	DFFA DNA fragmentation factor subunit alpha [Homo sapiens (human)]
Official Symbol	DFFA
Synonyms	DFFA; DNA fragmentation factor, 45kDa, alpha polypeptide; DNA fragmentation factor, 45 kD, alpha polypeptide; DNA fragmentation factor subunit alpha; DFF 45; DFF1; DFF45; DNA fragmentation factor; 45 kD; alpha subunit; ICAD; inhibitor of CAD; DNA fragmentation factor 45 kDa subunit; DFF-45;
Gene ID	1676
mRNA Refseq	NM_004401

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Protein Refseq	NP_004392
MIM	601882
UniProt ID	O00273
SDS-PAGE	

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